

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	linear with feedback adj shift adj register with random with (permut\$5 or interlev\$3) with polynomi\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:13
L2	2	"20040246888".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 15:23
L3	77	DVB and "4k mode"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 16:07
L4	57	DVB with "4k mode"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 16:07
L5	2	"5051998".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:09
L6	4271	375/260	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:10
L7	2	("6353900").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:12

## EAST Search History

L8	1666	370/203	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:12
L9	610	455/59	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:13
L10	248	linear with feedback adj shift adj register and random and (permut\$5 or interlev\$3)and polynomi\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 19:10
L11	8	10 and 6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:18
L12	12	10 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:18
L13	0	10 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:14
L14	0	3 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:14

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L15	13	3 and 6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:21
L16	1	3 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:14
L17	73	linear with feedback adj shift adj register and ((eleven or "11") near ((bit adj address) or (stages)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:22
L19	0	17 and 6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:21
L20	6	17 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:22
L21	0	17 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:21
L22	62	linear adj feedback adj shift adj register and ((eleven or "11") adj ((bit adj address) or (stages)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:26

## EAST Search History

L23	2	linear adj feedback adj shift adj register with ((eleven or "11") adj ((bit adj address) or (stages)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:23
L24	4	linear adj feedback adj shift adj register same ((eleven or "11") adj ((bit adj address) or (stages)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:24
L25	3	linear adj feedback adj shift adj register and ((eleven or "11") adj ((bit adj address) or (stages))) and ofdm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 17:26
L27	1	("2006/0062314").URPN.	USPAT	OR	ON	2007/11/13 17:39
L28	1	("2006/0062314").URPN.	USPAT	OR	ON	2007/11/13 17:41
L29	0	"4k modem" and "2k mode" and "8k mode"	USPAT	OR	ON	2007/11/13 17:42
L30	3	"4k mode" and "2k mode" and "8k mode"	USPAT	OR	ON	2007/11/13 17:42
L31	1	(linear with feedback adj shift adj register and random and (permut\$5 or interlev\$3)and polynomi\$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 19:10
S3	1	10/806524	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 15:54

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**A new class of linear feedback shift register generators ...**

**Linear feedback shift register (LFSR) random number gen- .... polynomial. a. =**  
877fa931 41669185, with **permutation**. defined by the parameters p ...  
[ieeexplore.ieee.org/iel5/7220/19454/00899781.pdf](http://ieeexplore.ieee.org/iel5/7220/19454/00899781.pdf) - [Similar pages](#) - [Note this](#)

**[PDF] 2000: A NEW CLASS OF LINEAR FEEDBACK SHIFT REGISTER GENERATORS**

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**Linear feedback shift register (LFSR) random number gen- erators are based on a linear**  
**recurrence .... polynomial a = 877fa931. 41669185, with permutation ...**  
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**2000: A NEW CLASS OF LINEAR FEEDBACK SHIFT REGISTER GENERATORS**

sequences with a given characteristic **polynomial** is obtained. by a new method. ... **Linear**  
**feedback shift register (LFSR) random number gen- ...**  
[portal.acm.org/ft\\_gateway.cfm?id=510477&type=pdf&coll=portal&dl=ACM](http://portal.acm.org/ft_gateway.cfm?id=510477&type=pdf&coll=portal&dl=ACM) -  
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**[xls] FS-2 comments**

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1) Use a 58-bit wide **linear feedback shift register** to implement the scrambler  
**polynomial**; 2) Produce A 32-bit wide value from this **linear feedback shift ...**  
[www.t11.org/ftp/t11/pub/fc/fs-2-a/06-768v3.xls](http://www.t11.org/ftp/t11/pub/fc/fs-2-a/06-768v3.xls) - [Similar pages](#) - [Note this](#)

**Chapter 4 Linear Feedback Shift Registers**

Clearly no periodic sequence, such as the keystream produced by a **linear feedback shift**  
**register**, is truly **random**. In fact knowledge of any 2m consecutive ...  
[www.maths.uwa.edu.au/~praeger/teaching/3CC/WWW/chapter4.html](http://www.maths.uwa.edu.au/~praeger/teaching/3CC/WWW/chapter4.html) - 52k -  
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**Patents in Class 708/253**

A **linear feedback shift register** for use as a SONET data scrambler, ... A means and  
method for generating **random permutations** on a square having k.sup.2 ...  
[www.freepatentsonline.com/CCL-708-253.html](http://www.freepatentsonline.com/CCL-708-253.html) - 62k - [Cached](#) - [Similar pages](#) - [Note this](#)

**Means and method for generating permutations of a square - Patent ...**

A means and method for generating **random permutations** on a square having k.sup.2 ...  
**linear feedback shift-register** with characteristic **polynomial** h(x); ...  
[www.freepatentsonline.com/4032764.html](http://www.freepatentsonline.com/4032764.html) - 33k - [Cached](#) - [Similar pages](#) - [Note this](#)  
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**RNG Surveys: A Literature Survey**

"Really **Random**" Values; Cycle Detection; **Polynomial** Degree ... Finding Primitive Mod 2  
**Polynomials**; Combined RNG's; **Random Permutations** ...  
[www.ciphersbyritter.com/RES/RNGSURVE.HTM](http://www.ciphersbyritter.com/RES/RNGSURVE.HTM) - 17k - [Cached](#) - [Similar pages](#) - [Note this](#)

**A modern rotor machine**

Umkehrwalze), in which three wired rotors which each implement a **random. permutation**  
on 256 symbols are turned by a **linear feedback shift register**. It is ...  
[www.springerlink.com/index/yj26427415251483.pdf](http://www.springerlink.com/index/yj26427415251483.pdf) - [Similar pages](#) - [Note this](#)

**Internally generated vectors for burnin system - US Patent 6675338**

**Linear feedback shift register** for circuit design technology validation .... Then the LFSR

<http://www.google.com/search?sourceid=navclient&ie=UTF-8&rls=GGLD,GGLD:2004-30...> 11/13/07

may generate **random** numbers according to the **polynomial** in the ...  
www.patentstorm.us/patents/6675338-description.html - 26k -  
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[Interleaver for mapping symbols on the carriers of an OFDM system ...](#)

a **linear feedback shift register** including a predetermined number of register .....

According to the generator **polynomial a pseudo random bit sequence** is ...

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[Data processing apparatus and method - Patent 20040246888](#)

[0007] The address generator comprises a **linear feedback shift register** .... According to the generator **polynomial a pseudo random bit sequence** is ...

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[DOC] [TIA/EIA/IS-2000-2-C](#)

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The algorithm uses a **linear feedback shift register** to generate pseudorandom numbers, which in turn are used to generate pseudorandom **permutations**. ...

[www.3gcn.org/3gpp2/TSGC/Working/2007-02-Seoul/TSG-C-2007-02-Seoul/WG3/C30-20070212-049\\_C.P0084%20v0.88.doc](http://www.3gcn.org/3gpp2/TSGC/Working/2007-02-Seoul/TSG-C-2007-02-Seoul/WG3/C30-20070212-049_C.P0084%20v0.88.doc) - [Similar pages](#) - [Note this](#)

[PDF] [Physical Layer for Ultra Mobile Broadband \(UMB\) Air Interface ...](#)

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2.5.3.1 **Pseudo-random Bit Sequence** Generation For Scrambling . ..... **permutations**.

30. The 20-tap **linear feedback shift register** shall have a generator ...

[ftp://tiaonline.org/tr-45/tr455/Incoming/Approved/TIA-1121\\_Updates.pdf](ftp://tiaonline.org/tr-45/tr455/Incoming/Approved/TIA-1121_Updates.pdf) -

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Intersection specifies the intersect length of two consecutive **OFDM** symbols. .... The

**linear feedback shift register** component can be used to generate PN ...

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**EP1463256** as the publication number

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**1 Interleaver for mapping symbols on the carriers of an OFDM system**

Inventor: PERON JEAN-LUC (FR)

Applicant: SONY UK LTD (GB)

EC: H03M13/27; H04L27/26M5; (+1)

IPC: **H03M13/27; H04L27/26; H04N5/44** (+8)

Publication info: **EP1463256** - 2004-09-29

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## Interleaver for mapping symbols on the carriers of an OFDM system

Publication number: EP1463256

Publication date: 2004-09-29

Inventor: PERON JEAN-LUC (FR)

Applicant: SONY UK LTD (GB)

Classification:

- international: H03M13/27; H04L27/26; H04N5/44; H04L1/00; H03M13/00; H04L27/26; H04N5/44; H04L1/00; (IPC1-7): H04L27/26; H03M13/27; H04N5/44

- European: H03M13/27; H04L27/26M5; H04N5/44N

Application number: EP20040251667 20040323

Priority number(s): EP20040251667 20040323; EP20030290754 20030325

Also published as:

EP1662740 (A1)  
EP1662739 (A1)  
EP1463256 (B1)

Cited documents:

US6353900  
XP002207124  
XP002249911

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### Abstract of EP1463256

A data processing apparatus maps input symbols to be communicated onto a predetermined number of carrier signals of an Orthogonal Frequency Division Multiplexed (OFDM) symbol. The data processor includes an interleaver memory which reads-in the predetermined number of data symbols for mapping onto the OFDM carrier signals. The interleaver memory reads-out the data symbols on to the OFDM carriers to effect the mapping, the read-out being in a different order than the read-in, the order being determined from a set of addresses, with the effect that the data symbols are interleaved on to the carrier signals. The set of addresses are generated from an address generator which comprises a linear feedback shift register and a permutation circuit. In order to provide a 4k mode for an OFDM modulated system such as a Digital Video Broadcasting (DVB) standard such as DVB-Terrestrial (DVB-T) or DVB-Handheld (DVB-H) standards, a generator polynomial for the linear feedback shift register of  $R^i \Delta^{10} \bar{U} = R^i - 1 \Delta^{10} \bar{U} (+) R^i - 1 \Delta^2 \bar{U}$  is provided with a permutation order which has been established by simulation analysis to optimise communication performance via typical radio channels.

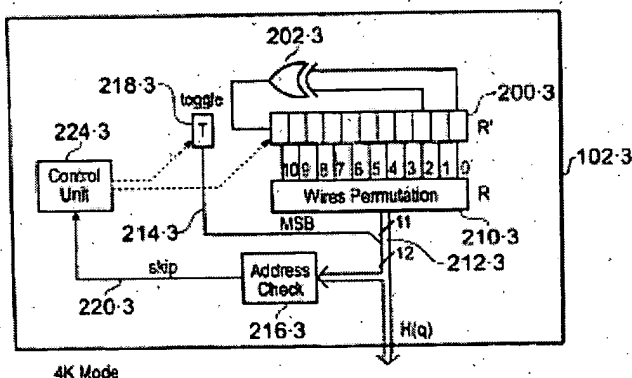


Fig. 7

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In order to provide a **4k mode** for an **OFDM** modulated system such as a Digital ....

According to the generator **polynomial a pseudo random bit sequence** is ...

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[Data processing apparatus and method - Patent 20040246888](#)

According to the generator **polynomial a pseudo random bit sequence** is .... 6TABLE 4

Bit **permutation** for the **4K mode** R.sub.i' bit positions 10 9 8 7 6 5 4 3 ...

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**4K-mode.** With the addition of a **4K mode** with some. 3409 active carriers, DVB-H benefits from the. compromise between the high-speed small- ...

[www.dvb.org/documents/white-papers/wp07.DVB-H.final.pdf](http://www.dvb.org/documents/white-papers/wp07.DVB-H.final.pdf) - [Similar pages](#) - [Note this](#)

[PDF] [Adding DVB-H compatibility to the DVB-T modulator: An overview of ...](#)

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It is worth emphasizing that the **4K mode** of DVB-H is not. compulsory. .... implement the **4K mode** the following changes must be made to a. DVB-T modulator: ...

[www.protelevision.com/pdf/DVBH172.PDF](http://www.protelevision.com/pdf/DVBH172.PDF) - [Similar pages](#) - [Note this](#)

[DVB-H Overview :: Radio-Electronics.Com](#)

However DVB-H provides a more in-depth interleaver that interleaves bits over two OFDM symbols (for the **4K mode**) and four bits (for the 2K mode). ...

[www.radio-electronics.com/info/cellulartelecomms/mobile\\_video/dvb-h.php](http://www.radio-electronics.com/info/cellulartelecomms/mobile_video/dvb-h.php) - 36k -

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**4K-mode** With the addition of a **4K mode** with some 3409 active carriers, DVB-H benefits from the ... **4k mode** for mobility and networkdesign flexibility ...

[www.cellular.co.za/dvb-h/dvb-h-technical-specs.htm](http://www.cellular.co.za/dvb-h/dvb-h-technical-specs.htm) - 12k -

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With the addition of a **4K mode** with some 3409 active. carriers, DVB-H benefits from the compromise between. the high speed small areas SFN capability of 2K ...

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Note that the **4K mode**, the in-depth interleavers and the DVB-H .... The DVB-T **4K mode** can be used both for single transmitter operation and for small and ...

[www.dvb-h.org/PDF/DVB-H%20Specification%20-%20En302304.V1.1.1.pdf](http://www.dvb-h.org/PDF/DVB-H%20Specification%20-%20En302304.V1.1.1.pdf) -

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DVB supports **4k mode**, 5 MHz channel ... **4K mode**. 0.4%. 0.3% to 0.5%. 8K mode. 0.4%. 0.3% to 0.5%. DVB-C. 0.9%. 0.5% to 0.9%. 1. All DVB-T/H EVM values refer ...

[www.home.agilent.com/agilent/redirector.jsp?action=ref&](http://www.home.agilent.com/agilent/redirector.jsp?action=ref&cc=AW&lc=eng&ckey=625477&cname=AG...)

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The **4K mode**. makes the receiver taste good! DVB-H is not alone. ... **4K-mode:** With the addition of a **4K mode**, DVB-H benefits from the compromise between the ...

[www.iab.ch/dvbworld2005/Dublin05%5B1%5D.ppt](http://www.iab.ch/dvbworld2005/Dublin05%5B1%5D.ppt) - [Similar pages](#) - [Note this](#)

[PDF] [DVB-H - the emerging standard for mobile data communication](#)

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**4K mode**, offering additional flexibility in designing single-frequency ..... DVB-H allows a **4K mode** to be used in addition which is created via a 4096-point ...

[www.ebu.ch/trev\\_301-dvb-h.pdf](#) - Similar pages - Note this

Memory efficient ofdm channel estimation and frequency domain ...

The **4K mode** is defined exclusively for DVB-H transmissions. [0014] The DVB-T/H signal structure is organized into frames. Each frame consists of 68 OFDM ...

[www.freshpatents.com/Memory-efficient-ofdm-channel-estimation-and-frequency-domain-diversity-processing-d...](#) - 31k - [Cached](#) - [Similar pages](#) - [Note this](#)

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on the **DBV-RCT** system. The Interactive Terminal or Return Channel Terrestrial ..... **4K-****mode**, providing a compromise between the high-speed mobility in ...[www.capanina.org/documents/CAP-D09-WP21-JSI-PUB-01.pdf](http://www.capanina.org/documents/CAP-D09-WP21-JSI-PUB-01.pdf) - [Similar pages](#) - [Note this](#)

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a **linear feedback shift register** including a predetermined number of register stages and .... As such a **4k** mode can be provided for example for DVB-T. ...

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### Data processing apparatus and method - Patent 20040246888

[0007] The address generator comprises a **linear feedback shift register** including a .... of a **4K** mode would be a good trade-off between these two modes. ...

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**linear feedback shift register** architecture. High-speed ap- .... Input  $m(4k+1)$ . Message. Input  $m(4k+2)$ . Message. Input  $m(4k+3)$  ...

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limitation costs accuracy, but keeps the table within one **4K** memory ..... The **linear feedback shift register** (LFSR) provides an efficient method of ...

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Initial value of the **linear feedback shift register** used to generate the PN15 ..... (Sub-carrier of OFDM) 2K, **4K**, 8K. "**4K**" cannot be set when No.1 = DVB-T. ...

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LFSR: **Linear feedback shift register**. • LTE: Long term evolution. ("4G") ..... One integer memory of  $4k \times 16$  bit used for data buffering between ...

[www.diva-portal.org/diva/getDocument?urn\\_nbn\\_se\\_liu\\_diva-8908-1\\_\\_fulltext.pdf](http://www.diva-portal.org/diva/getDocument?urn_nbn_se_liu_diva-8908-1__fulltext.pdf) -

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여기서 결정된 rotation index를 가지고 각 **4k**번째 단계 ..... LFSR(**Linear Feedback Shift Register**)로 구성되어 있기 때문이다. 그림 6은 블루투스 베이스밴드의 ...

[siti.re.kr/esiti/eData/edown/eSITIRewiew\\_5/5-eSoC%20R&D.pdf](http://siti.re.kr/esiti/eData/edown/eSITIRewiew_5/5-eSoC%20R&D.pdf) - [Similar pages](#) - [Note this](#)



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It's a **linear feedback shift register** (LFSR) circuit, or sometimes called, ..... (DRAM) with six **4K** word caches (one per memory block), integrated I/O ...

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[Interleaver for mapping symbols on the carriers of an OFDM system ...](#)

a **linear feedback shift register** including a predetermined number of register ... and the permutation order forms an **eleven bit address**  $R_i[n]$  for the  $i$ -th ...

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[Data processing apparatus and method - Patent 20040246888](#)

[0007] The address generator comprises a **linear feedback shift register** ... The permutation order forms an **eleven bit address**  $R_{sub.i}[n]$  for the  $i$ -th data ...

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**Data block deinterleaving and error correction system - Patent 5051998**

... for selecting (from three sets of **11-bit address** values) the .... clock pulses) and presetting that initial value in the **linear feedback shift register**. ...

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**11-bit address** bus from the DSP. Most of these ..... will be a **Linear Feedback Shift Register** (LFSR), which will produce most of the values of a ...

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**11-bit address** mode - The chip is in this mode, if, during reset CFG0 = 1. SCC2 wakes up with the .... ed as a **linear feedback shift register** (LFSR). See ...

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**Peron, Jean-Luc (SONY UNITED KINGDOM LIMITED), EUROPEAN PATENT APPLICATION**, May 2006  
patno:EP1662739  
...Multiplexed (**OFDM**) symbol...generate a **pseudo random bit sequence** and a **permutation** circuit...provide a **4k mode**. The **4k mode** has been...comprises a **linear feedback shift register** including...generate a **pseudo-random bit sequence** in accordance...  
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- ☐ 2. Interleaver for mapping symbols on the carriers of an OFDM system  
**Peron, Jean-Luc (SONY UNITED KINGDOM LIMITED), EUROPEAN PATENT APPLICATION**, May 2006  
patno:EP1662740  
...Multiplexed (**OFDM**) symbol...generate a **pseudo random bit sequence** and a **permutation** circuit...provide a **4k mode**. The **4k mode** has been...comprises a **linear feedback shift register** including...generate a **pseudo-random bit sequence** in accordance...  
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- ☐ 3. Interleaver for mapping symbols on the carriers of an OFDM system  
**Peron, Jean-Luc (SONY UNITED KINGDOM LIMITED), EUROPEAN PATENT APPLICATION**, Sep 2004  
patno:EP1463255  
...Multiplexed (**OFDM**) symbol...generate a **pseudo random bit sequence** and a **permutation** circuit. The **permutation** circuit permutes...one of the **OFDM** carriers...provide a **4k mode**. The **4k mode**...comprises a **linear feedback shift register** including...generate a **pseudo-random bit sequence** in accordance...and the **linear feedback shift register** has eleven...providing a **4k mode**. Whilst the...  
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- ☐ 4. Interleaver for mapping symbols on the carriers of an OFDM system  
**Peron, Jean-Luc (SONY UNITED KINGDOM LIMITED), EUROPEAN PATENT**, Sep

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patno:EP1463256

...Multiplexed (**OFDM**) symbol...generate a **pseudo random bit sequence** and a **permutation** circuit...provide a **4k mode**. The **4k mode** has been...comprises a **linear feedback shift register** including...generate a **pseudo-random bit sequence** in accordance...

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☐ 5. [Data processing apparatus and method](#)

**Peron, Jean-Luc**, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Dec 2004

patno:US20040246888

...generate the **permutation** function...generator **polynomial**. Therefore...**polynomial** a **pseudo random bit sequence** is generated...generator **polynomial**. The address...**polynomial** and the **permutation** order is...using a LFSR (**Linear Feedback Shift Register**). [0046...generate the **pseudo random bit sequence**. The **permutation** of the contents...0059] The **polynomial** used to generate...

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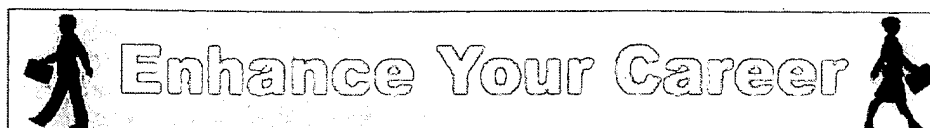
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**AUE, Volker (PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH ; KONINKLIJKE PHILIPS ELECTRONICS N. V.), PATENT COOPERATION TREATY APPLICATION**, Jan 2007  
 patno:WO07010431  
 ...to support the additional modes defined for **DVB-T-T (4k mode**, indepth interleaver). The **DVB-T** receiver has the ability to discard an arbitrary...to support the additional modes defined for **DVB-T-T (4k mode**, indepth interleaver) - The **DVB-T** baseband...  
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- ☐ 2. Method and device for processing a DVB-H (Digital Video Broadcasting -Handheld) compliant transport stream  
**Clerget, Antoine / Capiere, Patrick (Udcast), EUROPEAN PATENT APPLICATION**, Mar 2007  
 patno:EP1768285  
 ...over digital video broadcasting (**DVB**) networks. Internet Protocol...group of users. In particular, **DVB-H (DVB Handheld)** standard compliant...RS-packets per OFDM superframe in the **DVB-T** transmission mode which is...the 8K mode  $n = s \times 2$ , in the **4K mode**  $n = s \times 4$ , in the 2K mode  $n = s$ ...  
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**Peron, Jean-Luc (SONY UNITED KINGDOM LIMITED), EUROPEAN PATENT APPLICATION**, May 2006  
 patno:EP1662740  
 ...is known within the **DVB-T** standard to provide...advantages in providing a **4k mode**. Whilst the 8k mode...twenty four. As such a **4k mode** can be provided for example for a **DVB** standard, such as...in Figure 3 in the **4k mode**;Figure 8 is a schematic...example, with the **DVB-T** standard; andFigure...  
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*APPLICATION*, May 2006

patno:EP1662739

...is known within the **DVB-T** standard to provide...advantages in providing a **4k mode**. Whilst the 8k mode...twenty four. As such a **4k mode** can be provided for example for a **DVB** standard, such as...in Figure 3 in the **4k mode**; Figure 8 is a schematic...example, with the **DVB-T** standard; and Figure...


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- ☐ 5. METHOD AND DEVICE FOR PROCESSING A DVB-H (DIGITAL VIDEO BROADCASTING - HANDHELD) COMPLIANT TRANSPORT STREAM

**CLERGET, Antoine / CIPIERE, Patrick (UDCAST)**, *PATENT COOPERATION TREATY APPLICATION*, Apr 2007

patno:WO07039479

METHOD AND DEVICE FOR PROCESSING A **DVB-H** (DIGITAL VIDEO BROADCASTING...over digital video broadcasting (**DVB**) networks. Internet Protocol...packets per OFDM superframe in the **DVB-T** transmission mode which is...the 8K mode  $n = s \times 2$ , in the **4K mode**  $n = s \times 4$ , in the 2K mode  $n = s$ ...

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- ☐ 6. Interleaver for mapping symbols on the carriers of an OFDM system

**Peron, Jean-Luc (SONY UNITED KINGDOM LIMITED)**, *EUROPEAN PATENT*, Sep 2004

patno:EP1463256

...is known within the **DVB-T** standard to provide...advantages in providing a **4k mode**. Whilst the 8k mode...twenty four. As such a **4k mode** can be provided for example for a **DVB** standard, such as...in Figure 3 in the **4k mode**; Figure 8 is a schematic...example, with the **DVB-T** standard; and Figure...


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- ☐ 7. Interleaver for mapping symbols on the carriers of an OFDM system

**Peron, Jean-Luc (SONY UNITED KINGDOM LIMITED)**, *EUROPEAN PATENT APPLICATION*, Sep 2004

patno:EP1463255

...is known within the **DVB-T** standard to provide...advantages in providing a **4k mode**. Whilst the 8k mode...twenty four. As such a **4k mode** can be provided for example for **DVB-T**. Mapping data symbols...in Figure 3 in the **4k mode**; Figure 8 is a schematic...example, with the **DVB-T** standard; and Figure...

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- ☐ 8. DVB-H: Digital Broadcast Services to Handheld Devices [PDF-2MB]

Apr 2007

...for the network design. **4K mode** is an option for **DVB-H** complementing the 2K...high-speed reception. • The **DVB-T 4K mode** can be used both for...over IP FARIA et al.: **DVB-H: DIGITAL BROADCAST...HANDHELD DEVICES** 197 Fig. 3. **4k mode** with 8k interleaving...

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- ☐ 9. Method and system for concurrent communicating of high definition television (HDTV) and standard definition television (SDTV) information in a multistandard wireless communication system

**Van Rooyen, Pieter (Broadcom Corporation)**, *EUROPEAN PATENT APPLICATION*, Apr 2007

patno:EP1770883

...mobile broadcasting the **DVB-H** specification may...equipment, addition of a **4K mode** to enable network...data protocols. The **4K mode** in **DVB-H** may utilize 3,409...8MHz channel. The **4K mode** may enable network...cost. Importantly, **DVB-T** and **DVB-H** may coexist...

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- ☐ **10. Microsoft Word - Evaluation of DVB-H Broadcast Systems Using New Radio Channel Models.doc** [PDF-686K]

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...in-depth interleavers The **4K mode** is an intermediate...and is added to the **DVB-T** physical layer to...high-speed reception. The **DVB-T 4K mode** can be used both for...complexity. Neither the **4K mode** nor in-depth interleavers are mandatory for **DVB-H**. 2.2.2. **DVB-H** signaling...

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- ☐ **11. Hybrid cellular-broadcasting infrastructure systems: radio resource management issues**  
**Bria, Aurelian**, Jan 2006

...main topic in the second approach. For a **DVB-H** type of network, the numerical evaluations...one of the state of the art technologies (**DVB-H**) the results show that achieving economies...Mobile Users 37 4.1 Short introduction to **DVB-H**...

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- ☐ **13. Mobile terminal architecture with multichip design for cellular or wireless networks and broadcast reception**

**van Rooyen, Pieter (Broadcom Corporation)**, *EUROPEAN PATENT APPLICATION*, Jun 2006

patno:EP1670163

...mobile broadcasting the **DVB-H** specification may...equipment, addition of a **4K mode** to enable network...data protocols. The **4K mode** in **DVB-H** may utilize 3,409...8MHz channel. The **4K mode** may enable network...cost. Importantly, **DVB-T** and **DVB-H** may coexist...

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- ☐ **14. Method and system for mobile receiver antenna architecture for handling various digital video broadcast channels**

**van Rooyen, Pieter (Broadcom Corporation)**, *EUROPEAN PATENT APPLICATION*, Jun 2006

patno:EP1670151

...mobile broadcasting the **DVB-H** specification may...equipment, addition of a **4K mode** to enable network...data protocols. The **4K mode** in **DVB-H** may utilize 3,409...8MHz channel. The **4K mode** may enable network...cost. Importantly, **DVB-T** and **DVB-H** may coexist...

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- ☐ **15. Method and system for receiving broadcast and cellular communication in a mobile terminal with a cellular transceiver and a broadcast receiver**

**Van Rooyen, Pieter (Broadcom Corporation)**, *EUROPEAN PATENT APPLICATION*, Jun

2006

patno:EP1670160

...mobile broadcasting the **DVB-H** specification may...equipment, addition of a **4K mode** to enable network...data protocols. The **4K mode** in **DVB-H** may utilize 3,409...8MHz channel. The **4K mode** may enable network...cost. Importantly, **DVB-T** and **DVB-H** may coexist...

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- ☐ 16. MEMORY EFFICIENT OFDM CHANNEL ESTIMATION AND FREQUENCY DOMAIN DIVERSITY PROCESSING

**ANANTH, Sharath / KOHLI, Sanjai / STURZA, Mark Alan / LEIMER, Donald (SIRF TECHNOLOGY, INC.), PATENT COOPERATION TREATY APPLICATION, Aug 2007**  
patno:WO07087111

...MHz, 7 MHz, 6 MHz, and 5 MHz channel spacings. The 2K mode and 8K mode are defined for **DVB-T** and **DVB-H** transmissions. The **4K mode** is defined exclusively for **DVB-H** transmissions. [0008] The **DVB-T/H** signal structure is organized into frames. Each frame...

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- ☐ 17. Novas hybrid positioning technology using terrestrial digital broadcasting signal (DBS) and global positioning system (GPS) satellite signal

**Shyr, You-Yah Jack / Ji, Cuichai / Cheng, Mingqiang (O2Micro, Inc.), EUROPEAN PATENT APPLICATION, May 2007**  
patno:EP1785741

...namely DAB (digital audio broadcasting) and **DVB** (digital video broadcasting) /ATSC (advanced...broadcasting system (T-DBS), which includes DAB, **DVB**, and ATSC system, has an unparalleled edge...initialization packet in a mega frame of a **DVB** signal according to one exemplary embodiment...

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- ☐ 18. Reception in a wireless communication system which uses interleaving of both bits and symbols

**Oh, Hyun-Seok / Yoon, Jung-Wook / Ha, Ji-Won / Yim, Eun-Jeong (Samsung Electronics Co., Ltd.), EUROPEAN PATENT APPLICATION, Apr 2007**  
patno:EP1770939

...a digital video broadcasting (**DVB**) system. More particularly, the...video broadcasting-handheld (**DVB-H**) system is a standard in which a **4K-mode** fast Fourier transform (FFT...and the like are added to a **DVB-terrestrial (DVB-T)** system based...

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- ☐ 19. Interactive TV: A new application for mobile computing

**Rauschenbach, U. , Computers & Graphics, 30 (5), p.727-736, Oct 2006**

...Application of synchronisation: signer on demand. Fig. 7 A **DVB-H** terminal prototype. Fig. 8 **DVB-H** time slicing principle. Fig. 9 The key hierarchy...recommended, O: optional, M: mandatory Standard Video Audio **DVB** IPDC H.264 (R), VC-1 (O) HE AAC v2 (M), AMRWB+(O...


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- ☐ 20. Apparatus and method for transmitting and receiving broadcasting data in a digital multimedia broadcasting system

**XU, Liling / Song, Jae-Yeon / Jung, Ki-Ho / Wang, Ping, Yikwangkwaki Bldg. (Samsung Electronics Co., Ltd.), EUROPEAN PATENT APPLICATION, Nov 2006**  
patno:EP1717974

...is identical to the **DVB-T** standard, except for the addition of a **4K mode**, as illustrated

in FIG. 1. The **4K mode** is optional, aimed...of flexibility for **DVB-H** network planning...FIG. 2 illustrates a **DVB-H** frame for the **4K mode**. Referring to FIG...

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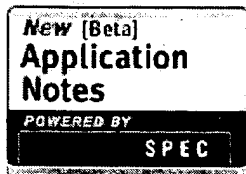
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 Kai-Yuan Jheng; Tsung-Han Wu; Yi-Chiuan Wang; Jih-Chiang Yeo; Yu-Ju Ch  
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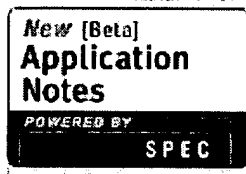
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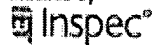
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